

generators, as catalyst supports, filtration media, phonic insulation, electromagnetic and nuclear protection structures, or for other applications.

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In the claims:

Kindly amend claims 14, 18, 22, 25 and 27-30 as follows:

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Claim 14. (Twice Amended) A complex porous structure of reticulated material produced by a process comprising :

electroplating said material with metal substantially throughout its entire thickness, over all its developed surface, subsequent to pre-metallizing,

pre-metallizing comprising depositing a conductive polymer on the surface of the fibers or the opening of the structure, said depositing comprising :

(1) oxidising a base structure comprising pores, (consisting of a reticulated cellular structure of high porosity greater than 80%, with a solution containing permanganate/manganate salts and/or cerium IV compounds; )

(2) rinsing and drying,

(3) depositing, (in a wet phase), on surfaces of the base structure, a monomer which in polymerized form is electrically conductive;

(4) polymerisation by oxidation-doping of the monomer into an electrically conductive polymer; and

(5) rinsing, wherein said steps are carried out on the base structure, substantially throughout its entire thickness, without clogging the pores of the base structure.

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Claim 18. (Amended) The structure according to claim 14, wherein the monomer deposited is selected from the group consisting of pyrrole.

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Claim 22. (Amended) A metallized structure produced by claim 14 wherein said electroplating is carried out in an electrolysis bath comprising ions which stabilize or oxidize an anodic structure.

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Claim 25. (Amended) The metallized structure according to claim 22, wherein said metal used for electroplating is selected from the group consisting of copper, nickel, iron, chromium, zinc, aluminum, tin, lead, gold, platinum, and an alloy mixture of at least two of said metals.

Claim 27. (Amended) The complex porous structure of claim 26, comprising draining following the rinsing subsequent to the polymerization by oxidation-doping of the monomer.

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Claim 28. (Amended) The complex porous structure of claim 27, comprising drying following the draining following the rinsing subsequent to the polymerization by oxidation-doping of the monomer.